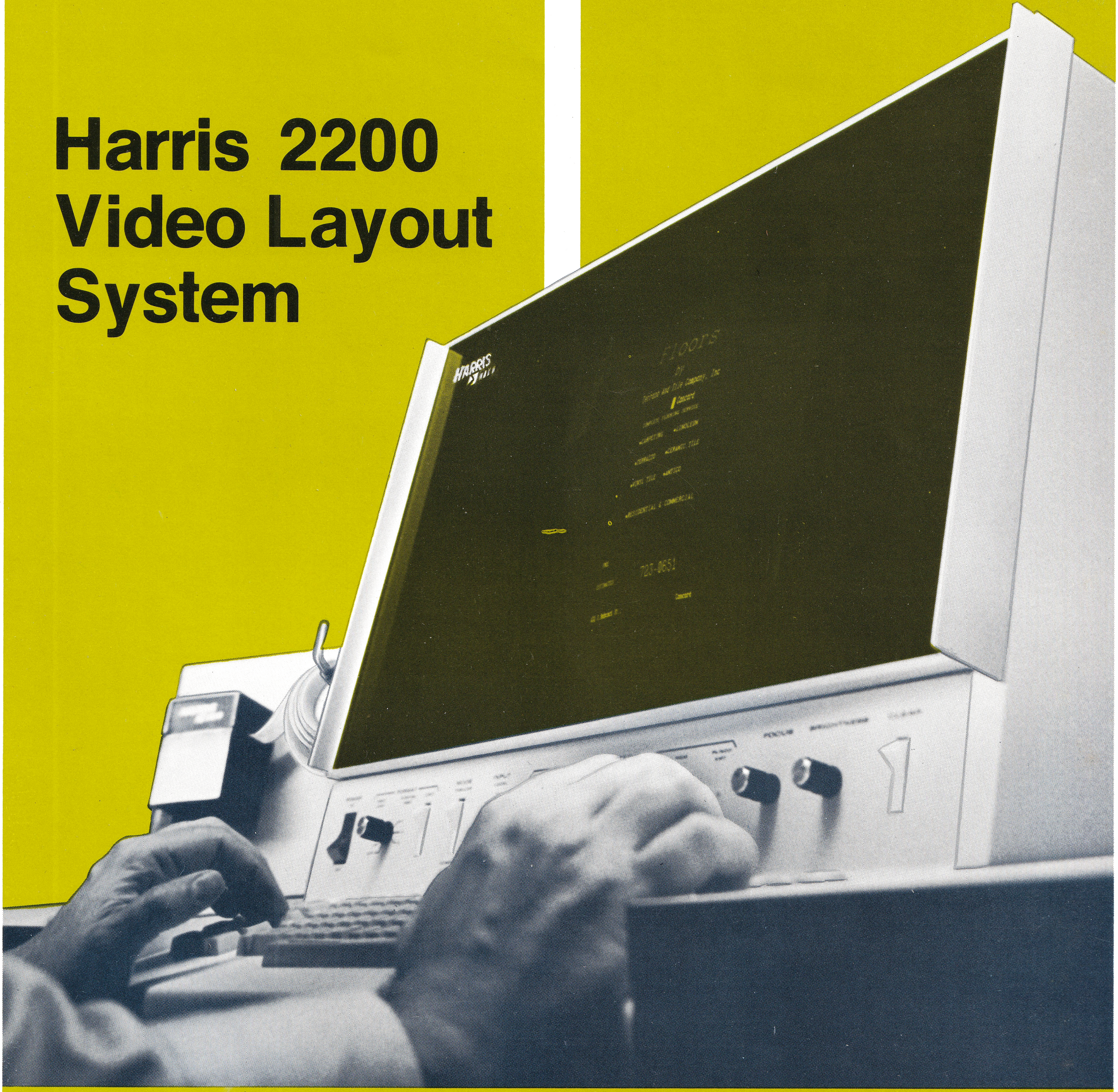
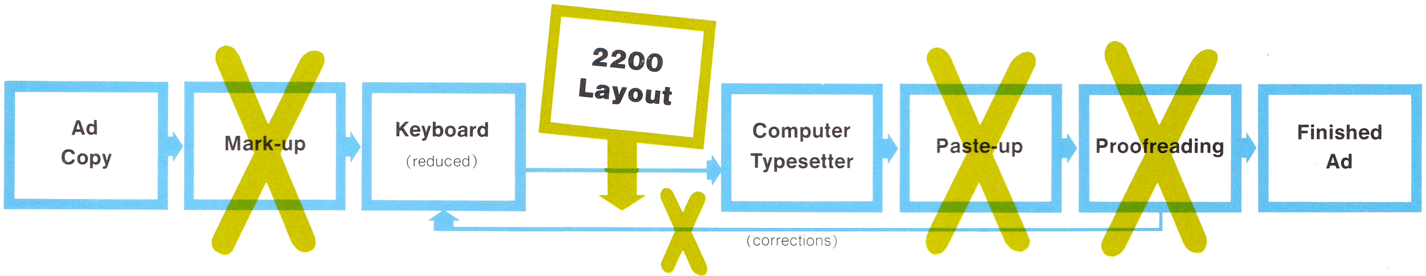
# Harris 2200 Video Layout System



Now you can produce completely finished area composition, without markup, pasteup and other costly steps of production

# Harris 2200 System



Addition of the Harris 2200 System to your photocomposition production flow eliminates mark-up and paste-up of ad elements. Keyboarding is reduced to a fraction of that required in conventional photocomposition. The correction cycle and its costs virtually disappear.

Here's a foolproof method of copy fitting and correction prior to typesetting. The Harris 2200 Video Layout System is simple, instantaneous . . . and it won't let you make a mistake.

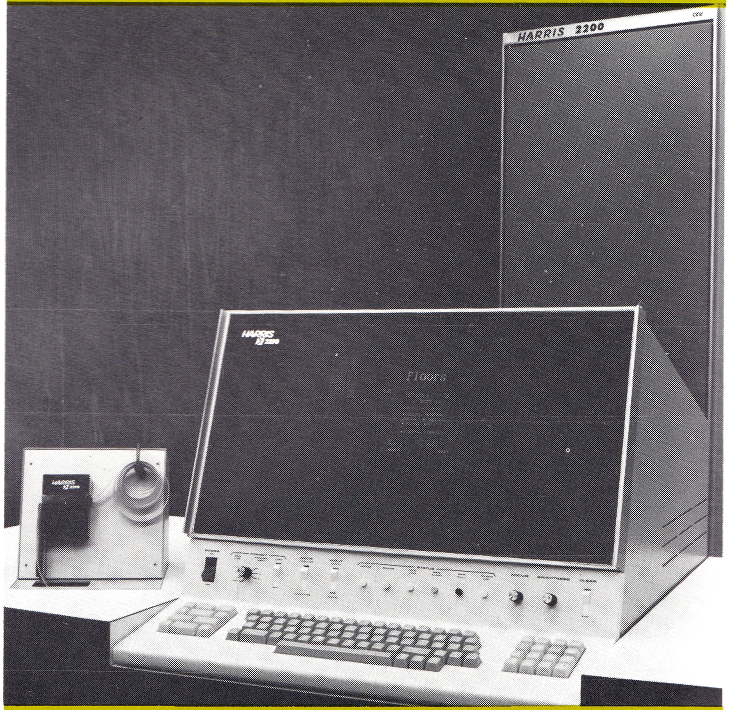
First, copy is scanned or keyed into tape. Then, it is read into the 2200 terminal. Text immediately appears on the video display screen ready for layout.

Using a keyboard-directed cursor and copy fitting keys, the operator positions the copy on the screen to match the exact layout desired. The copy appears in the actual point size and set width for any desired type font. There's absolutely no need for character count tables.

As the operator positions the copy, layout instructions are computed by the Harris 2200 System. When limitations of typesetting equipment are exceeded, errors are indicated by blinking text on the video display screen at the exact point the errors occur. The operator can adjust the copy as necessary for proper typesetting.

The operator immediately sees the result of copy fitting, movement of copy blocks, corrections, and changes in point size, film advance or leading, line measure, indent, skew and other typographic functions. When the screen display matches the desired layout, the Harris 2200 System perforates a tape complete with all text and layout function codes required to drive the typesetting system.

Without mark-up or paste-up, and with a vast reduction in original keyboarding, the Harris 2200 Video Layout System permits accurate, rapid preparation for photocomposition of retail and classified display ads, complex straight matter, page composition, area composition and yellow page ads. The system is directly compatible with a broad range of photocomposition equipment.



**Layout Messages**

Quadding Code

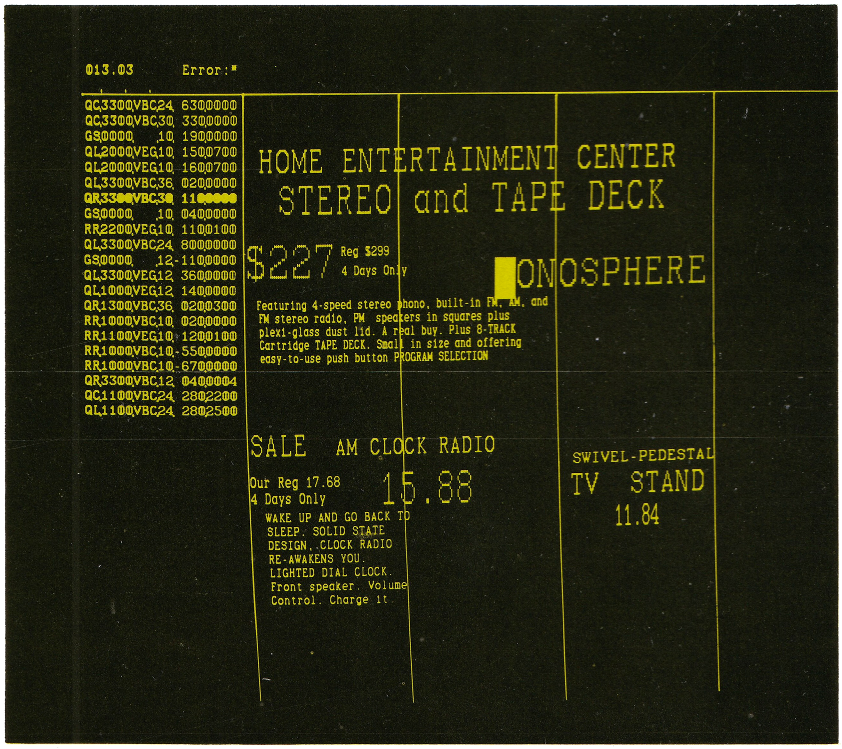
Measure

Font

Point Size

Film Advance

Indention



```
013.03        Error:*

QC3300VBC24  6300000
QC3300VBC30  3300000
GS0000   10  1900000
QL2000VEG10  1500700
QL2000VEG10  1600700
QL3300VBC36  0200000
QR33[illegible]VBC3[illegible]  11[illegible]
GS0000   10  0400000
RR2200VEG10  1100100
QL3300VBC24  8000000
GS0000   12-1100000
QL3300VEG12  3600000
QL1000VEG12  1400000
QR1300VBC36  0200300
RR1000VBC10  0200000
RR1100VEG10  1200100
RR1000VBC10-5500000
RR1000VBC10-6700000
QR3300VBC12  0400004
QC1100VBC24  2802200
QL1100VBC24  2802500
```

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LIGHTED DIAL CLOCK.
Front speaker. Volume
Control. Charge it.

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TV STAND
11.84

**Text Display**
45 pica × 7.5″
viewing area

scrolls to full
column ad
depth

displays 6–48 pt.
characters
true-size

calculates spacing
for 54–96 pt.
characters

1000 characters
displayed

variable column
rules displayed

constant cursor
visual marker

# What you see is what you set

As copy is read into the Harris 2200, it displays on the video screen. The operator selects a basic layout instruction which is displayed on the left side of the screen. Automatically, the layout instruction is assigned to each element of the copy. Copy immediately adjusts on the screen to match this instruction.

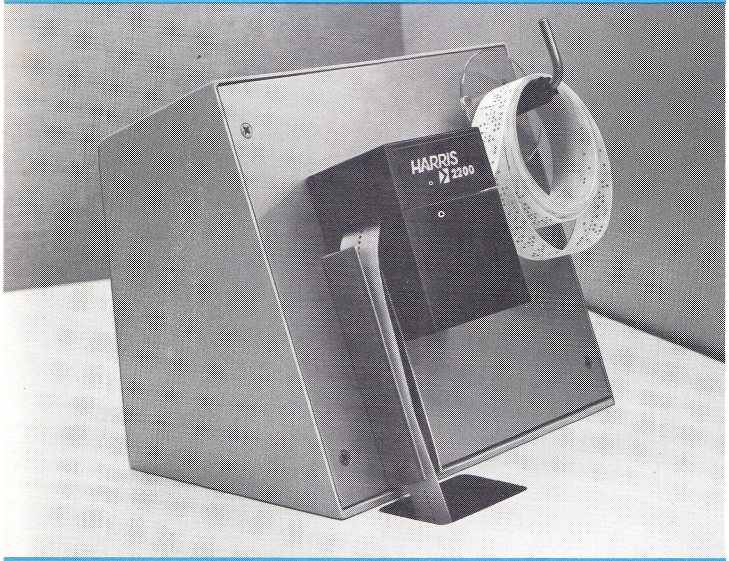
The copy is shown in an area up to four columns (45 picas) in width. By scrolling vertically, up to full newspaper column depths are displayed. The system handles characters from 6 to 96 point in size—showing 6–48 point in actual size and generating proper spacing for larger characters.

Using the keyboard controls, the operator adjusts the layout as desired. To change point size, the cursor is positioned on a specific element of copy. The point size "increase" key is depressed. Immediately, the copy element redisplays on the screen in the next available larger point size. Point size, font, and leading changes, *even within a line,* are easily made and shown.

To change font or quadding, the cursor is positioned on the layout instruction pertaining to a specific copy element. The font or quad code is overstruck with the revised code. The copy element immediately redisplays in accordance with the new instruction.

For example, in the large screen view, the cursor is on the "I" of the word "Ionosphere". (The associated layout instruction is temporarily illuminated in bold face to assist in identification.) If this copy element should be set quad center rather than quad right (as indicated by the QR), the operator moves the cursor with a single keystroke to the "R" of QR. He keys a "C" and immediately the word would be centered on the line.

There is no guesswork— *What you see is what you set!*



## Simplified input

Copy input for the Harris 2200 System is simple. After basic copy is received, it is ready, *as is*, for data entry by punched tape or OCR scanner. There is no mark-up. There are no command codes. There are no extra keystrokes. . . you save in keyboarding. And, you can't make a keyboarding error in something you don't keyboard.

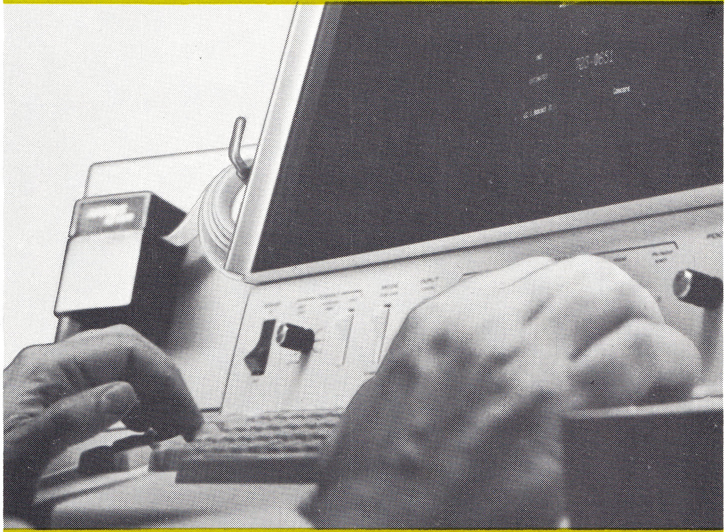
Input normally consists of raw copy with only a line ending code to indicate the end of a copy block. In most cases, the copy is read into the Harris 2200 terminal via a paper tape reader and instantly displayed on the video screen for the layout operation.

## Designed for efficiency

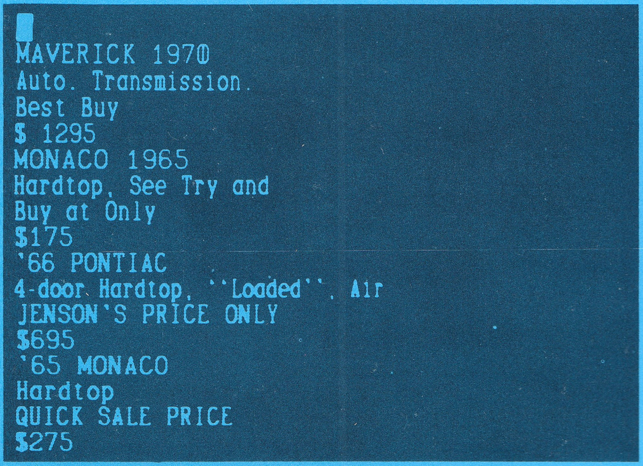
Harris 2200 terminals operate on-line to a control unit. The control unit constantly provides updated information to each terminal so it can display layout changes instantly. The keyboard and CRT display are designed for full-shift operator comfort. Viewing angle, phosphor persistence, refresh rate and character font were selected for error-free, fatigue-free operation in a normally lighted room.

The keyboard—both editing and layout controls—is engineered for speed and accuracy. With the editing controls, the operator can insert, delete, replace, move, copy, and merge text in any manner. With the layout controls, the operator can precisely change point size, film advance, indention, font, quadding, and any other characteristic of the final layout.

For complex ad composition, changes in point size, font, and film advance can be made within a line of copy—and the terminal immediately displays the effect of these changes. This, plus split quadding, with or without leaders, provides utmost efficiency for composition of complex grocery and retail ads.

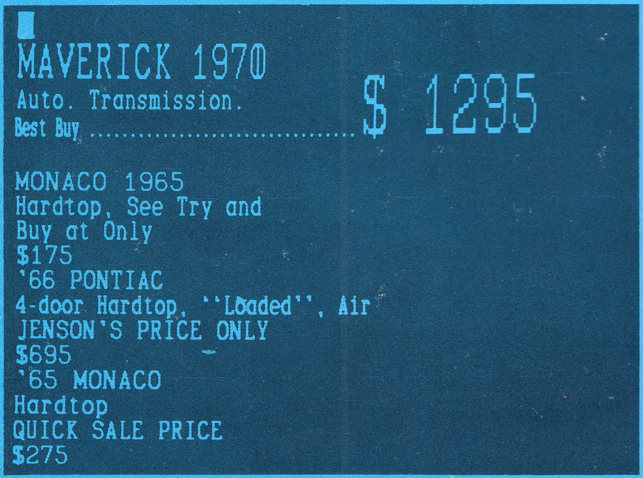


# A flexible system



```
MAVERICK 1970
Auto. Transmission.
Best Buy
$ 1295
MONACO 1965
Hardtop, See Try and
Buy at Only
$175
'66 PONTIAC
4-door Hardtop, ''Loaded''. Air
JENSON'S PRICE ONLY
$695
'65 MONACO
Hardtop
QUICK SALE PRICE
$275
```

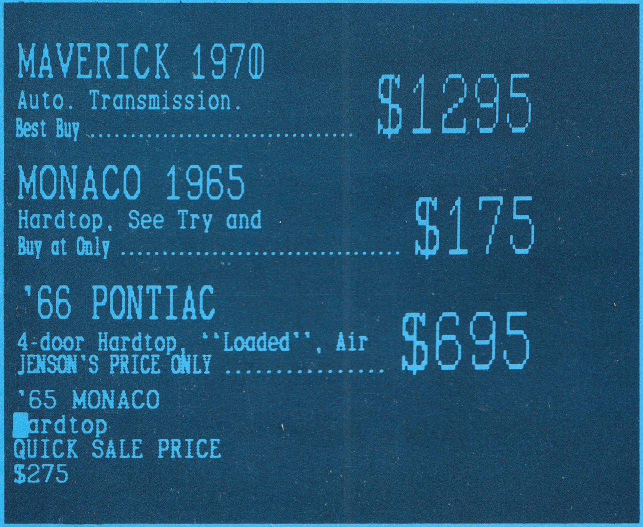
Ad copy, without mark-up, is read onto terminal screen.



```
MAVERICK 1970
Auto. Transmission.
Best Buy ............................. $ 1295

MONACO 1965
Hardtop, See Try and
Buy at Only
$175
'66 PONTIAC
4-door Hardtop, ''Loaded''. Air
JENSON'S PRICE ONLY
$695
'65 MONACO
Hardtop
QUICK SALE PRICE
$275
```

Copy is positioned into desired layout—creating a format.



```
MAVERICK 1970
Auto. Transmission.                     $1295
Best Buy ............................
MONACO 1965
Hardtop, See Try and                    $175
Buy at Only .............................
'66 PONTIAC
4-door Hardtop, ''Loaded''. Air         $695
JENSON'S PRICE ONLY ...............
'65 MONACO
Hardtop
QUICK SALE PRICE
$275
```

Operator applies format to additional ad copy. Also, operator corrects spacing error in price of first ad.

If required, text or copy fitting changes —even after the original setting of copy— can be handled easily with the Harris 2200 System. The original ad layout, for example, may be redisplayed on the screen, corrected, and completely reset with changes. Or, small changes may be keyboarded directly at the terminal, laid out, set, and pasted on the original ad.

To assist in layout of repetitive copy (for example: grocery ads), formats can be created and applied to new copy. The operator positions the initial copy elements in a desirable layout. The layout structure is defined as a format. Then the operator directs the terminal to apply the format to following copy. Immediately, the copy positions according to the format layout—without keyboarding or mark-up effort.

## System compatibility

—The basic Harris 2200 Video Layout System consists of a single terminal and a terminal control unit. However, up to four terminals can be interconnected to the terminal control unit. Each terminal operates completely independent of the others. Input and output to and from the system can be through paper tape, a communication line to a computer system, or both, depending on customer requirements.

As the copy is being processed for output, the Harris 2200 software combines the text and the applicable layout commands into a format directly compatible with the customer's typesetting system. This output software is tailored to provide the proper input to typesetting computers or directly to appropriate typesetters.

# Harris 2200 Specifications

## Input/Output

### Source

6, 7, or 8-level paper tape
On-line data transmission

### Devices

Paper tape reader (120 cps)
Paper tape punch (110 cps)
Communication line (RS232C)
On-line interface with computer systems available

## Display

### Viewing Area

9.5″ width × 7.5″ depth
45 pica (7.5″) width × 7.5″ depth for text layout
Scrolling to full page depth

### Display Capacity

1000 characters (depending on size)

### Terminal Memory

4000 characters

### Character Repertoire

128 characters standard
Up to 160 optional

### Character Sizes

6 to 48 point actual size
Spacing generated for 54 to 96 point

### Phosphor

P-31 (green) for maximum legibility

### Refresh Rate

60hz flicker free, synchronized

## Layout/Edit Functions

### Cursor

Non-destructive
Constant display in point size of text
Up, down, right, left, diagonal

### Edit/Correct

Insert, delete, overstrike
Move, copy, merge

### Layout/Fitting

Quadding—right, left, center, split
Ragged—right, left, center
Justify, tab, skew, indent
Font—width of characters displayed varies by font
Point size, leading (film advance), font—up to 50 changes within a line
Formatting—format creation, storage and application to new copy

## Equipment Configuration

### Terminal Control Unit

PDP-11 processor with additional memory buffers

### Video Layout Terminals

Up to 4 per control unit

### Software Packages

Copy input module
Copy fit/correct module
Typesetting output module

## Miscellaneous

### Electronics

All solid state

### Size

Terminals—30″ depth × 23″ width
Control Unit—31″ depth × 22″ width × 72″ height

### Weight

Terminal—100 lbs.
Control Unit—400 lbs.

### Power

110 VAC single phase

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Set in various faces on the Harris Fototronic photocomposition system
Printed in U.S.A.